UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE DEPENDENT RESURVEY OF

A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE SUBDIVISION OF SECTIONS 20, 21, AND 28,

IN

TOWNSHIP 13 SOUTH, RANGE 1 WEST

OF THE SALT LAKE MERIDIAN IN THE STATE OF UTAH

EXECUTED BY

Daniel T. Gillins Cadastral Surveyor

Under Special Instructions dated *July 1, 2008*, approved *July 1, 2008*, which provided for the surveys included under Group Number *1088*, and Assignment Instructions dated *July 1, 2008*.

Survey commenced July 10, 2008
Survey completed September 20, 2008

INDEX DIAGRAM

Township 13 South, Range 1 West

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TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH.

The following field notes are those of the dependent resurvey of a portion of the subdivisional lines, and the subdivision of sections 20, 21, and 28, in Township 13 South, Range 1 West, Salt Lake Meridian, Utah.

History of Surveys Surveyed by Retr. Or Resurveyed by

SOUTH BOUN	DARY			
Portion All Portion Portion Portion Portion	C. Mogo E.W. Koeber ARY (Salt Lake Meridan)	1856 1884	E.W. Koeber 1884 S.P. & A.J. Stewart 1898 R.A. Zaninovich 1991-9 M.R. Workman & R.K. 1996-9 Baugh	
All WEST BOUND	C. Mogo	1856	A.D. Ferron 1882	
All Portion	E.W. Koeber	1884	R.A. Zaninovich 1991-9	2
Portion Portion Portion Portion Portion	C.L. Craig A.J. Stewart, Jr.	1856 ₁₈₇₈	A.J. Stewart, Jr. 1878 E.W. Koeber 1884 J.C. Thoma & H.W. 1920 Miller R.A. Zaninovich 1991-9 F.D. Reynolds 1996	2
Portion Portion Portion Portion Portion	C. Mogo E.W. Koeber	1856 1884	E.W. Koeber 1884 R.A. Zaninovich 1991-9: F.D. Reynolds 1996	2

PRIVATE SURVEYS

A survey was executed by Stephen L. Ludlow, L.S. 152774, with an unrecorded record of survey plat, not dated, obtained from Ludlow Engineering and Land surveying, Nephi, Utah.

TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 1088, dated July 1, 2008.

The direction of the lines was determined by references to true meridians, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the Standards and Guidelines for Cadastral Surveys Using Global Positioning System Methods, dated May 9, 2001, Version 1.0. Trimble model 5800 GPS receivers were used for field collection. Cadastral Automated Plat Drafting (CAPD) software was the primary software utilized for the project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data was thoroughly verified and only the true line field notes are given herein.

Cadastral Control Network was derived from GPS static observations, post processed by the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS): KENNECOTT1UT2005 CORS ARP, DETAMUNI_UT2004 CORS ARP, and MIDVALE CORS ARP.

The geographic position of the corner of sections 17, 18, 19, and 20, as determined by direct RTK methods from the National Geodetic Survey OPUS solution, is as follows:

Latitude: 39°40'25.029" N. Longitude: 111°58'09.517" W. N.A.D. 1983, Network Accuracy = 0.200 meter at 95% confidence.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

Dependent Resurvey of a Portion of the Subdivisional Lines, Township 13 South, Range 1 West, Salt Lake Meridian, Utah

Reestablishment of the Survey Executed by E.W. Koeber in 1884

Beginning at the corner of sections 27, 28, 33, and 34, monumented with an unrecorded 1/2 inch diameter rebar, firmly set, projecting 2 inches above ground, with a mound of stone, 3 feet base, 1 1/2 feet high, 2 links west. This position is harmoniously related to existing original corners, has been recognized as the corner by local surveyors, and is accepted as best available evidence of the original corner position. This monument is shown on the unrecorded Ludlow Engineering and Land Surveying record of survey plat, not dated.

At the corner point,

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, in a mound of stone, 3 feet base, to top of aluminum cap marked:

Set a steel fence post alongside the aluminum post.

Deposit rebar inside of aluminum post.

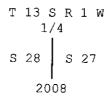
Corner is located on a steep, NW facing slope inside a domestic elk ranch.

N. 1°32.0' W., between sections 27 and 28.

40.279 Point for the 1/4 section corner of sections 27 and 28, at proportionate distance, there is no remaining evidence of the original corner. Point falls in a burn area and where most quartzite rocks are flaky and chipped.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with aluminum cap marked:

CHAINS



Set a steel fence post alongside the aluminum post.

Corner is located on an east facing slope, west of a NE draining gulch named "Rattle Snake Canyon" which is in a domestic elk ranch.

The corner of sections 21, 22, 27, and 28, monumented with an unrecorded 1/2 inch diameter rebar, firmly set, projecting 2 inches above ground, with a wood stake set along north side labeled "PROP COR", and numerous survey lathe alongside, under an E-W ancient barbed wire fence, and at the extension of a barbed wire fence running north. This position is harmoniously related to existing original corners, has been recognized as the corner by local surveyors, and is accepted as the best available evidence of the original corner position. This monument is shown on the unrecorded Ludlow Engineering and Land Surveying record of survey plat, not dated.

At the corner point,

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, in a mound of stone, 2 feet base to top of aluminum cap marked:

Set a steel fence post along the north side of the aluminum post.

Deposit the rebar inside the aluminum post.

N. 1°34.7' E. between sections 21 and 22.

41.056 The 1/4 section corner of sections 21 and 22, monumented with a quartzite stone, $12 \times 10 \times 4$ inches, firmly set, projecting 6 inches above ground, plainly marked 1/4 on its west face, with a mound of stone, 3 feet base, 6 inches high, 3 links west of corner.

At the corner point,

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 25 inches in the ground, with aluminum cap marked:

Set a steel fence post alongside the aluminum post.

Bury the marked stone, inverted, alongside the aluminum post.

Rebuild the mound of stone, 3 feet base, 2 feet high, 3 links west of corner.

Corner is on top of a ridge, bears E-NE.

From the corner of sections 27, 28, 33, and 34.

S. 89°54.5′ W. between sections 28 and 33.

40.775 Point for the 1/4 section corner of sections 28 and 33, at proportionate distance, there is no remaining evidence of the original corner.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with aluminum cap marked:

Set a steel fence post alongside the aluminum post.

Corner is 83 links east of a gravel road, bears NE-SW.

Raise mound of stone, 3 feet base, 1 foot high, 2 links west of corner.

81.550 The corner of sections 28, 29, 32, and 33, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 4 inches above ground, with aluminum cap marked as described in the official record of the 1991-92 resurvey, with a mound of stone, 3 feet base, 1 foot high, west of corner, and a steel fence post set along the southeast side of corner.

CHAINS

Corner is located east, approximately 1.5 chains distance from a fence corner of barbed wire fences extending west and south, on an east facing slope.

Reestablishment of the Survey Executed by E.W. Koeber in 1884 and the Resurvey Executed by R.A. Zaninovich in 1991-92

N. 1'34.8' W., between sections 28 and 29

40.815 The 1/4 section corner of sections 28 and 29, monumented with an aluminum post, 2 1/2 inches diameter, firmly set in a mound of stone, 3 feet base, 8 inches high to top of aluminum cap marked as described in the official record of the 1991-92 resurvey, with a steel fence post set along east side of the corner.

Corner is located on a south facing slope.

N. 0°36.7′ W., beginning new measurement.

19.892 Point for the N 1/16 section corner of sections 28 and 29.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, in a mound of stone, 3 feet base to top of aluminum cap marked:



Set a steel fence post alongside the aluminum post.

Corner is located on a steep, north face of a rocky slope.

39.784 The corner of sections 20, 21, 28, and 29, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, in a mound of stone, 6 feet base, 1 foot high, to top of aluminum cap marked as described in the official record of the 1991-92 resurvey, with a steel fence post set alongside the corner.

Corner is located on north slope of an east draining gulch.

CHAINS

Reestablishment of the Survey Executed by E.W. Koeber in 1884.

From the corner of sections 21, 22, 27, and 28.

N. 89°43.0' W., between sections 21 and 28.

The 1/4 section corner of sections 21 and 28, monumented with an unrecorded aluminum pipe, 2 1/2 inches diameter, firmly set, projecting 9 inches above a collar of stone, 3 feet base, with aluminum cap marked:

JUAB COUNTY
T 13 S R 1 W
S 21
1/4
S 28
1993
SURVEYOR

Found the original stone monument, a quartzite $12 \times 7 \times 6$ inches, plainly marked 1/4 on its face, buried alongside the aluminum pipe, with a steel fence post set also alongside. This monument is accepted as a careful and faithful perpetuation of the original corner position.

Rebuild the mound of stone, 3 feet base, 1 foot high, to top of aluminum cap.

S. 89°36.6' W., beginning new measurement.

20.297 Point for the W 1/16 section corner of sections 21 and 28.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, with aluminum cap marked:

Corner is located on a north facing slope, surrounded by scattered junipers.

40.594 The corner of sections 20, 21, 28, and 29.

CHAINS

Reestablishment of the Survey Executed by E.W. Koeber in 1884 and the Resurvey Executed by R.A. Zaninovich in 1991-92

N. 0'42.3' W., between sections 20 and 21.

40.103 The 1/4 section corner of sections 20 and 21, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, in a mound of stone, 3 feet base, 6 inches high, to top of aluminum cap marked as described in the official record of the 1991-92 resurvey, with a steel fence post set alongside the corner.

N. 1'11.5' E., beginning new measurement.

20.018 The N 1/16 section corner of sections 20 and 21, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, in a mound of stone, 3 feet base, 1 foot high, to top of aluminum cap marked as described in the official record of the 1991-92 resurvey.

Corner is located in bottom of gulch, drains northeast.

40.036 The corner of sections 16, 17, 20, and 21, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, in a mound of stone, 2 1/2 feet base, 8 inches high to top of aluminum cap marked as described in the official record of the 1991-92 resurvey.

From the 1/4 section corner of sections 16 and 21, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 4 inches above ground, in a collar of stone, 1 foot base, with aluminum cap marked as described in the official record of the 1991-92 resurvey, with a steel fence post set along east side of corner.

Corner is located 38 links south of an E-W barbed wire fence.

S. 89°48.2' W., between sections 16 and 21.

20.577 The W 1/16 section corner of sections 16 and 21, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 2 inches above ground, with aluminum cap marked as described in the official record of the 1991-92 resurvey, with a mound of stone, 3 feet base, 6 inches high, north of corner.

41.154 The corner of sections 16, 17, 20, and 21.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

- S. 89°18.5′ W., between sections 20 and 29.
- The 1/4 section corner of sections 20 and 29, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, in a mound of stone, 3 feet base, 8 inches high, to top of aluminum cap marked as described in the official record of the 1991-92 resurvey.
 - S. 89°15.6' W., beginning new measurement.
- 40.229 The corner of sections 19, 20, 29, and 30, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, in a mound of stone, 3 feet base, 8 inches high, to the top of aluminum cap marked as described in the official record of the 1991-92 resurvey.
 - N. 0'50.9' W., between sections 19 and 20.
- 39.667 The 1/4 section corner of sections 19 and 20, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, in a mound of stone, 3 feet base, 1 1/2 feet high, to top of aluminum cap marked as described in the official record of the 1991-92 resurvey.

Corner is located on a steep, rocky, northwest facing slope.

- N. 0'51.2' W., beginning new measurement.
- 39.667 The corner of sections 17, 18, 19, and 20, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 5 inches above ground, with aluminum cap marked as described in the official record of the 1991-92 resurvey, with a mound of stone, 2 feet base, 1 foot high, 2 links west of corner.

From this corner an ancient barbed wire fence runs west along south side of a cultivated field.

From the corner of sections 16, 17, 20, and 21

- S. 88'44.4' W., between sections 17 and 20.
- 20.502 The E 1/16 section corner of sections 17 and 20, monumented with an aluminum post, 2 1/2 inches diameter, in a mound of stone, 4 feet base, 10 inches high, to top of aluminum cap marked as described in the official record of the 1991-92 resurvey.

Corner is located on gentle, SE facing slope.

CHAINS

- The 1/4 section corner of sections 17 and 20, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 8 inches above ground, with aluminum cap marked as described in the official record of the 1991-92 resurvey, with a mound of stone, 3 feet base, 2 feet high, 3 links north of corner.
 - S. 88'43.9' W., beginning new measurement.
- **41.003** The corner of sections 17, 18, 19, and 20.

The Subdivision of Section 20, Township 13 South, Range 1 West, Salt Lake Meridian, Utah

From the 1/4 section corner of sections 20 and 29.

N. 0°17.3'W., on the N-S center line of section 20.

39.873 Point for the center 1/4 section corner of section 20, at the intersection with the E-W center line of section.

Set an aluminum post, 30 inches long, $2\ 1/2$ inches diameter, 22 inches in the ground, in a mound of stone, $3\ ft.$ base to top of aluminum cap marked:

T 13 S R 1 W

C 1/4 S 20

2008

Set a steel fence post alongside the aluminum post.

Corner is located on east edge of a four wheel drive road, bearing $\mbox{NE-SW}$.

- 59.794 Point for the center N 1/16 section corner of section 20, not monumented.
- 79.715 The 1/4 section corner of sections 17 and 20.

From the 1/4 section corner of sections 20 and 21.

S.88'58.4' W., on the E-W center line of section 20.

19.986 Point for the center E 1/16 section corner of section 20, not monumented.

THE SUBDIVISION OF SECTION 20,
TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

- 39.972 The center 1/4 section corner of section 20.
- 80.586 The 1/4 section corner of sections 19 and 20.

From the point for the center E 1/16 section corner of section 20.

N. 0'27.2' E., on the N-S center line of the NE 1/4 of section 20.

19.968 Point for the NE 1/16 section corner of section 20.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 18 inches in the ground to rock, in a mound of stone, 3 feet base to top of aluminum cap marked:

NE 1/16 S20

2008

Set a steel fence post alongside the aluminum post.

39.936 The E 1/16 section corner of sections 17 and 20.

From the N 1/16 section corner of sections 20 and 21.

- **S.** $88^{\circ}51.4'$ **W.**, on the E-W center line of the NE 1/4 of section 20.
- 20.244 The NE 1/16 section corner of section 20.
- 40.488 The point for the center N 1/16 section corner of section 20.

The Subdivision of Section 21, Township 13 South, Range 1 West, Salt Lake Meridian, Utah

From the 1/4 section corner of sections 21 and 28.

N. 0'39.0' E., on the N-S center line of section 21.

40.340 Point for the center 1/4 section corner of section 21, at the intersection with the E-W center line of section.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, in a collar of stone, 2 ft. base, with aluminum cap marked:

THE SUBDIVISION OF SECTION 21,
TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

T 13 S R 1 W

C 1/4 S 21

2008

Set a steel fence post alongside the aluminum post.

Corner is in the bottom of a gulch, drains east.

60.168 Point for the center N 1/16 section corner of section 21.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground, in a mound of stone, 3 feet base to top of the aluminum cap marked:

Set a steel fence post alongside the aluminum post.

Corner is located on a SE facing slope, $45\ \mathrm{links}$ south of barbed wire fence, bears E-W.

79.996 The 1/4 section corner of sections 16 and 21.

From the 1/4 section corner of sections 21 and 22.

S. 89°17.6′ W., on the E-W center line of section 21.

- 41.005 The center 1/4 section corner of section 21.
- 61.777 Point for the center W 1/16 section corner of section 21.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with aluminum cap marked:

Set a steel fence post alongside the aluminum post.

82.549 The 1/4 section corner of sections 20 and 21.

From the center W 1/16 section corner of section 21.

THE SUBDIVISION OF SECTION 21,
TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

N. $0^{\circ}55.3'$ E., on the N-S center line of the NW 1/4 of section 21.

19.923 Point for the NW 1/16 section corner of section 21.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, in a mound of stone, 2 ft. base to top of aluminum cap marked:

NW 1/16 S 21

2008

Corner is located on a very steep, south facing slope, 17 links south of barbed wire fence, bears E-W.

39.846 The W 1/16 section corner of sections 16 and 21.

From the center N 1/16 section corner of section 21.

S. $89^{\circ}32.7'$ W., on the E-W center line of the NW 1/4 of section 21.

- 20.674 The NW 1/16 section corner of section 21.
- 41.348 The N 1/16 section corner of sections 20 and 21.

The Subdivision of Section 28,
Township 13 South, Range 1 West, Salt Lake Meridian, Utah

From the 1/4 section corner of sections 28 and 33.

N. 1°13.3' W., on the N-S center of section 28.

40.542 Point for the center 1/4 section corner of section 28, at the intersection with the E-W center line of section.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 26 inches in the ground, with aluminum cap marked:

T 13 S R 1 W

C 1/4

S 28

2008

- 60.676 Point for the center N 1/16 section corner of section 28, not monumented.
- 80.810 The 1/4 section corner of sections 21 and 28.

THE SUBDIVISION OF SECTION 28, TOWNSHIP 13 SOUTH, RANGE 1 WEST, SALT LAKE MERIDIAN, UTAH

CHAINS

From the 1/4 section corner of sections 27 and 28.

N. 89'42.9' W., on the E-W center line of section 28.

- 40.557 The center 1/4 section corner of section 28.
- 61.073 Point for the center W 1/16 section corner of section 28, not monumented.
- 81.589 The 1/4 section corner of sections 28 and 29.

From the point for the center W 1/16 section corner of section 28.

 $N.~0^{\circ}55.1'~W.$, on the N-S center line of the NW 1/4 of section 28.

20.013 Point for the NW 1/16 section corner of section 28.

Set an aluminum post 30 inches long, 2 1/2 inches diameter, 20 inches in the ground, in a mound of stone, 3 feet base to top of aluminum cap marked:

NW 1/16 S28

2008

Set a steel fence post alongside the aluminum post.

40.026 The W 1/16 section corner of sections 21 and 28.

From the point for the center N 1/16 section corner of section 28.

- **S.** $89^{\circ}56.9'$ **W.,** on the E-W center line of the NW 1/4 of section 28.
- 20.406 The NW 1/16 section corner of section 28.
- 40.812 The N 1/16 section corner of sections 28 and 29.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

· · · · · · · · · · · · · · · · · · ·	- 1		
Name	Capacity		
Adrian M. Kurip	Survey Technician		
Calvert C. Norton	Survey Technician		

CERTIFICATE OF SURVEY

I, Daniel T. Gillins, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the 1st day of July, 2008, I have dependently resurveyed a portion of the subdivisional lines, and subdivided sections 20, 21, and 28, in Township 13 South, Range 1 West, of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions of the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

Darie

April 28, 2009

Date

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT Salt Lake City, Utah

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, and the subdivision of sections 20, 21, and 28, in Township 13 South, Range 1 West, Salt Lake Meridian, Utah, executed by Daniel T. Gillins, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

April 28, 2009

Date

(Chief Cadastral Surveyor for Utah)